WELD CONNECT

WELDING TECHNOLOGY INSTITUTE OF AUSTRALIA

JUNE 2017



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WTIA CEO UPDATE

In late May, I was invited by Austrade to attend the South Australia – France Education Seminar. The seminar was organised by the South Australian Government to bring together various education and industry bodies to discuss how to partner and collaborate in preparation for the Future Submarine SEA1000 project.

Renaud Poyet (Deputy Program Manager for the Future Submarines SEA1000 project at DCNS France) gave a presentation on the plans that DCNS has in place for identifying and building their technical and trade capability for the delivery of the submarines. He explained that over the next six months DCNS will focus on the engineering and technical professionals required for the program. Following this, they will move onto a training needs analysis of the skilled trades requirements.

There was also a Q&A session facilitated by Brian Rungie (Executive Director Education at TAFE SA). Brian is the WTIA's principal contact for the AWCR pilot welding assessment and training program to ISO 9606 that the WTIA has proposed to the South Australian Government.

During the Q&A session, Brian recognised the WTIA for its support for Defence projects and the importance of preparing the South Australian workforce for the demands of the project.

I was also fortunate enough to meet with senior officials from Austrade, the senior management of DCNS, and the CEO of UIMM (a major industry association for engineering professionals in France, which undertakes a huge amount of training and certification for DCNS).

This was an extremely positive meeting, in which WTIA's potential involvement in the training needs analysis for DCNS was discussed, specifically for welding engineers, technical staff and welders for the Future Submarine SEA1000 project.

The Defence shipbuilding program that is set to take



place in Western and South Australia is a huge opportunity for Australian welders, technicians and engineers. The WTIA is working to represent its members to the Defence industry wherever possible. We are committed to ensuring that all new Defence equipment is built by Australian welders, and that Defence contractors have no reason or excuse for importing skilled labour to deliver these projects.

WTIA FAST FACTS MAY TO JUNE 2017			
2	Meetings with state governments	9	Newly trained International Welding Specialists
10	Meetings with welding industry stakeholders	5	Newly trained International Welding Inspectors
2	Presentations at NMW	6	Hotline queries resolved
3	WTIA staff trained as Soldamatic Official Professionals	5	Online Welding Sales Representative courses completed
3	State Division Committee meetings	344	Welders registered on the <u>AWCR</u>

VICTORIA DIVISION NEWS

WELDING STRUCTURAL STEEL: FROM STANDARDS TO SITE

Bruce Ham (WTIA Chief Technology Officer) and Melissa Odendaal (WTIA Welding Consultant) recently gave a presentation to the Association of Consulting Structural Engineers Victoria (ACSEV). The presentation covered 'Welding Structural Steel – from standards to site'.

Welding is a critical activity in the construction of buildings and other structures. Although commonly used, it is mostly not well understood, particularly in regard to flaws and defects that can occur if welding is not carried out correctly.

The presentation covered common welding processes, and examined where welding processes can go wrong (including specifications, design, welding symbols and instructions); common mistakes and misconceptions on the job; and how to tell whether a weld is suitable for purpose, regardless of whether the weld is for temporary supports, tacks, or high strength steels.

An overview of quality requirements, including documentation and welder qualifications was included.

VIC CONTACT

Melissa Odendaal Welding Consultant 0418 922 369 m.odendaal@wtia.com.au The need for standardised welding and fabrication was also made clear, with a discussion of AS/NZS 1554.1, as well as the New Australian Standard, AS 5131 *Fabrication and Erection of Structural Steelwork*.

The presentation was very well received. It was clear that Bruce and Melissa added value to the meeting, with a number of questions asked afterwards.

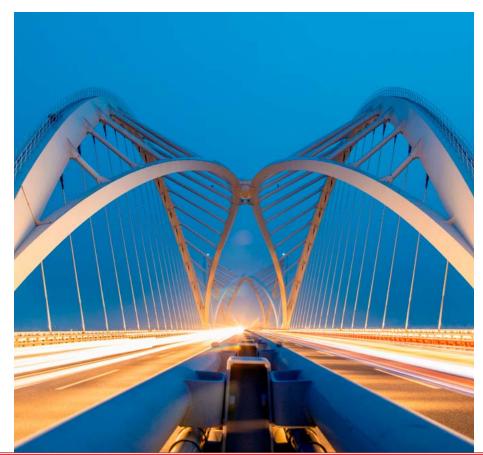
UPCOMING EVENT: DUPLEX & SUPER DUPLEX STAINLESS STEEL WELDING

The Victorian Division is pleased to invite members and their guests to attend a presentation by Lincoln Electric on 'Duplex and Super Duplex Stainless Steel Welding'. Phill Stubbington, Lincoln Electric's National Welding Engineer - Alloy Specialist, will give the presentation.

For over 120 years, Lincoln Electric has been a world leader in the design, development and manufacture of arc welding products, robotic arc welding systems, plasma and oxyfuel cutting equipment and has a leading global position in the brazing and soldering alloys market.

The details of the event are:

- Date: Thursday 22 June
- Time: 5.30pm
- Location: ATTAR, 1/64 Bridge Road, Keysborough, VIC 3173
- **RSVP**: Tuesday 20 June by clicking here



NSW DIVISION NEWS

After years of downsizing and pessimism, there are encouraging signs that the manufacturing industry in Australia may be turning a corner. Employment and new orders have grown. Business optimism is improving. And Australians still firmly believe that a healthy manufacturing sector is crucial to national prosperity.

For years, Australians have heard mostly "bad" news from manufacturing: losses, closures, and redundancies. They could be forgiven for assuming this sector has no future.

But that pessimism is badly misplaced: in fact, this is a unique moment of opportunity for Australian manufacturing. The rebalancing of the national economy (in light of changing trade patterns, commodity prices, and exchange rates) creates important openings for advanced manufacturing. And Australia's proven capacities for innovation and design are another crucial advantage.

Already there are encouraging signs that manufacturers are taking advantage of these opportunities: employment in the sector increased significantly over the last year.

The Centre for Future Work and The Australia Institute will host the National

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Manufacturing Summit on Wednesday 21 June.

The National Manufacturing Summit will see a diverse group of industry stakeholders assemble to build on the opportunities currently available, by elevating the prominence of manufacturing in policy debates and public awareness.

The aim of the Summit is (through a cross-sectoral alliance of stakeholders) to leverage the opportunities currently available in the manufacturing sector, and translate these into action.

Three of parliament's major power players for Australian

industry and innovation will come face to face at the conference, specially prepared to discuss what's to become of the country's manufacturers.

Senators including Minister for Industry Arthur Sinodinos, Shadow Minister for Industry Kim Carr, and Nick Xenophon, leader of the Nick Xenophon Team (NXT), have all agreed to attend the first National Manufacturing Summit.

The WTIA is a proud sponsor of this event. WTIA CEO, Geoff Crittenden, will speak about links with global supply chains, as a member of 'Action Plan Panel #1: Collaborate'.

For more information, visit: manufacturingmatters.org.au

SA DIVISION NEWS

DEFENCE INDUSTRY SUPPORTED EDUCATION MODEL LAUNCHED IN SOUTH AUSTRALIA

St Patrick's Technical College is South Australia's first P-TECH school.

The Australian Government is investing over \$5 million to pilot P-TECH in Australia. P-TECH is an innovative skillsbased program that provides an industry supported pathway for students to achieve a postschool qualification in areas of growing employment demand.

P-TECH is a world leading educational model pioneered in 2011 by IBM in New York and has since expanded across the USA and internationally. It involves the establishment of long-term partnerships between industry, schools and tertiary education providers that enable businesses to play an active role in the learning and career development of their future workforce.

Globalisation, economic reforms and technological improvements are changing the nature of work and the types of jobs that will be available in the future — and science, technology, engineering and mathematics (STEM) skills will play a major role.

St Patrick's Technical College introduced this innovative program in 2017 with Defence Industry pathways as the key focus. This includes skills





and qualifications required to support jobs across a range of defence industry projects of national significance with pathways in engineering, electrotechnology and information technology.

Defence industries are a huge economic driver in South Australia and through P-TECH courses, St Patrick's Technical College students will be able to tap directly into these opportunities.

To achieve this goal, St Patrick's Technical College is working collaboratively with TAFE SA, Defence Teaming Centre and locally-based employer partners, including Century Engineering.

Engineering students at St Patrick's Technical College undertake projects designed by the team at Century Engineering. Projects span Century's capabilities in South Australia including water, defence, rail, power, resources and energy applications.

Key personnel from Century Engineering, including engineers and technicians, work with students on projects and as mentors throughout the program. Students also visit and undertake work experience at Century Engineering's facility in the Edinburgh North Smart Industries Precinct and with and other defence industries employers.

Pathways from the P-TECH -Century Engineering program include apprenticeships with defence industry employers, direct entry to TAFE SA Associate Degree programs in Civil & Structural Engineering or Engineering undergraduate courses at university.

SA CONTACT

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WA DIVISION NEWS

TECHNICAL PRESENTATION

The Western Australia (WA) Division recently hosted a technical presentation by Phill Stubbington, Lincoln Electric's National Welding Engineer - Alloy Specialist. The presentation was titled 'Factors Affecting Mechanical Properties of Carbon and HSLA Steel Welded Joints'.

The presentation covered the very practical aspect of cold cracking, also known as hydrogen cracking and hydrogen induced cracking. The audience appreciated how Phil presented the technical aspects, broken down into easily understood information.

Phill started with microstructure and alloy design, and showed how practical aspects influence mechanical properties, such as arc length in the flat versus overhead position. He then covered cold cracking and the factors that can lead to this type of failure, showing the influence of carbon equivalent on the preheat and interpass requirements to avoid problems, and how welding process selection affects the weld metal toughness w.r.t deposit oxygen content. The discussion also included aspects to mitigate cold cracking susceptibility, which nicely introduced consumable selection.

The WA Division would like to sincerely thank to Lincoln and Phil for another riveting presentation.

ELECTION OF A NEW WA DIVISION CHAIRMAN

We are pleased to announce that a new WA Division Chairman has been elected: Selwyn Kipling, Welding Manager at UGL.

Sel started his working life as an apprentice welder in the UK. Working in an R&D department as a welding technician was Sel's spur to seek further education, and he eventually became a welding engineer, followed by welding manager.

Much of his experience was



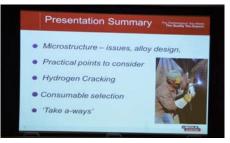
gained during the oil and gas boom but also include a the manufacture of pressure vessels and piping equipment, and the construction of nuclear processing equipment. Sel's previous and current roles have involved quality management under BS 5750 (the forerunner of ISO 9001) and ISO 3834.

Relocating to Australia eighteen years ago, Sel has been involved with the WTIA for almost two decades and has worked at UGL for ten years.

Despite being a welding engineer for a very long time, Sel is still passionate about what he does and takes great satisfaction in helping others to comprehend what to them may initially seem complicated.



The audience at the recent technical presentation on Factors Affecting Mechanical Properties of Carbon and HSLA Steel Welded Joints.



WA CONTACT Louise Petrick Technology Manager 0409 789 540 I.petrick@wtia.com.au

QLD DIVISION NEWS

Manufacturing in Queensland is a highly diverse industry with growth sectors including aviation, biofuels and biomanufacturing, defence, fibre composites, machinery and equipment, marine, medical technologies and pharmaceuticals, mining equipment and technology services, processed food and renewable energies.

Manufacturing is also an important contributor to other Queensland industries like agriculture, building and construction, resources, health care and community services.

Queensland's manufacturing industry can build on its existing strengths and benefit from emerging market opportunities by being agile and responsive to disruptive changes. The state must foster innovative and sustainable businesses producing low-volume, high-value, customised products.

To support this shift, the state's manufacturing businesses must be able to operate in a predictable business environment that encourages innovation, investment and growth.

The Queensland Government is strongly committed to providing an environment where the state's manufacturing industry can grow, diversify, and deliver

QLD CONTACT

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stronger economic, regional and employment growth. The government is implementing a number of programs to assist this growth, including 'Made in Queensland'.

MADE IN QUEENSLAND

Made in Queensland is a \$20 million Queensland Government initiative supporting our manufacturing sector to become more internationally competitive and adopt innovative processes and technologies. Eligible manufacturing businesses will be able to apply for grants of between \$50,000 and \$2.5 million to become more productive, grow, innovate and create knowledge-based jobs for Queensland's future.

Made in Queensland grants will reimburse eligible businesses up to 50% of the cost of

implementing recommendations detailed in their Benchmarking Report and Action Plan.

This program complements the recently released Advance Queensland Advanced Manufacturing 10-Year Roadmap and Action Plan that will help manufacturers to transition to becoming an advanced manufacturer.

Who is eligible?

Made in Queensland is targeted at helping small to medium sized manufacturers. To be eligible, you must:

- Be a manufacturing business based in Queensland
- Employ between five and 200 people.

For further information, visit www.statedevelopment.qld. gov.au/made-in-queensland

NT DIVISION NEWS

FIRST MEETING OF THE NORTHERN TERRITORY DIVISIONAL COMMITTEE

We are very pleased to report that the newly formed Northern Territory Divisional Committee recently met for the first time.

Grant Ryan, Managing Director of A & B Welding, was elected as the Chairperson of the Northern Territory Division at this meeting. Grant has over 20 years of post-trade experience in the manufacture and welding of various piping systems working both on and offshore as a Welder and Welding Supervisor.

A Boilermaker by trade, Grant also has International Welding Practitioner (IWP), International Welding Specialist (IWS), International Welding Inspector (IWIB) and Certified Welding Inspector (CWI) qualifications and is the company's Responsible Welding Coordinator (RWC).

Other items discussed at the committee meeting included:

- Creating awareness of the existence of the committee amongst business, government and individuals
- Accreditation issues
- Higher level training opportunities and availability

QLD CONTACT

Rebecca Hansen Membership Coordinator 02 8748 0135 <u>r.hansen@wtia.com.au</u> The Northern Territory committee, via WTIA head office, will be in touch with all Northern Territory members in due course to gauge what issues are most affecting the territory, and what the WTIA may be able to do to assist.

NT GOVERNMENT: CREATING JOBS

Budget 2017-2018 has focused on supporting jobs through a range of initiatives and investments to stimulate the Northern Territory economy.

The Territory Government will invest \$1.75 billion in infrastructure works, including a record \$297 million repairs and maintenance program which will benefit local small and medium-sized enterprises.

Other highlights from the Budget include \$250 million over two years in economic stimulus packages and a \$1.1 billion 10 year remote housing investment package.

Other key budget initiatives for local business include:

- Upgrades to the Keep River Plains Road, to support the \$1.45 billion prawn farm, Project Sea Dragon.
- \$100 million to rejuvenate



Grant Ryan, MD of A & B Welding, and NT Division Committee Chairman.

the Darwin CBD though the State Square redevelopment project.

- \$53.4 million (including Commonwealth funding) for registered training organisation to deliver skills training to Territorians.
- \$22.4 million for registered training organisations to train apprentices and trainees.
- \$10 million towards road works and public infrastructure elements of a \$200 million luxury hotel.
- \$5 million to continue front end and design work for the proposed ship lift facility.
- \$3.4 million to support the Australian Government's proposed \$20 billion defence investment in the Territory.

Source: https://business.nt.gov.au



Insurance tailored for WTIA members



JMD Ross and the Welding Technology Institute of Australia have partnered to provide discounted insurance for WTIA members.

Our products

- ✓ Public and products liability (\$10m or \$20m limits)
- Includes goods in care, custody and control; errors & omissions
- ✓ Free contract reviews and advice on your insurance needs

Add the extras



Our expertise

- Monthly premiums available
- Dedicated claims handlers
- We understand your industry
- ✓ We examine your risks individually
- We provide advice and arrange policies that suit your needs
- We provide professional client services and innovation in risk and insurance programs



To discuss your insurance needs, please contact: Dee Flovick ↓ +61 (0) 2 9478 0831 ☑ dflovick@jmdross.com.au

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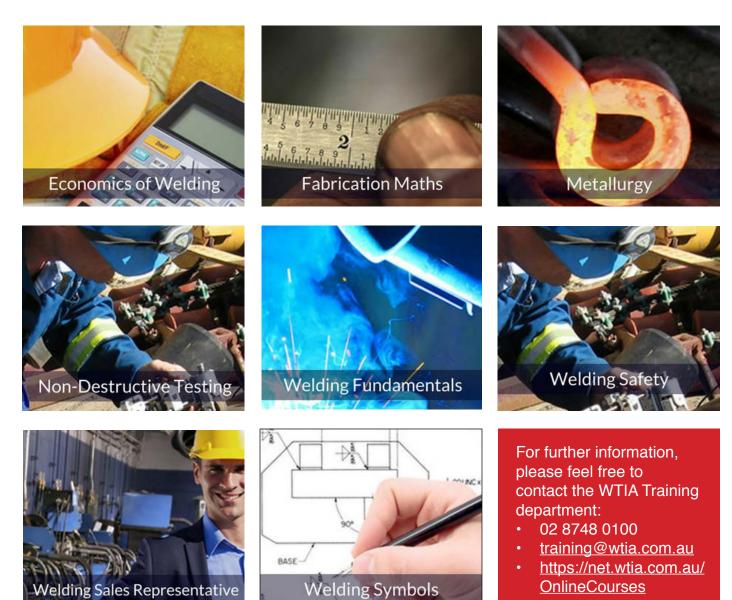
In conjunction with the American Welding Society (AWS), the Welding Technology Institute of Australia offers a number of online courses to help develop your welding knowledge. These courses are available any time day and night and are designed as self-paced modules which will allow you to complete them in your own time.

These online courses include Safety in Welding, which covers hazards, safety equipment, ventilation, welding in confined spaces, and safety precautions and specifications.

The Metallurgy course covers the characteristics of atoms,

the periodic table, chemical bonding, chemical reactivity, the atomic structure of materials, and the properties of metals.

The Non-Destructive Testing course describes the principles and performance of visual testing, penetrant testing, magnetic particle testing, radiographic testing, and ultrasonic testing. Topics covered include discontinuities and their causes, as well as the role of vision, capillary action, magnetism, radiation, and sound in all types of testing.



Qualification vs Certification – Are Welders Properly Certified? By Paul James, WTIA Training Manager

The terms qualification and certification mean different things to different industries and vocations. Some think that the terms are interchangeable or are "basically the same thing", but are they?

So let's start with the premise that you have just finished a training course and have been awarded a qualification. A question right away is "are all qualifications the same?" The answer is no, a qualification is an official record showing that you have finished a training course or have the necessary skills at the time the qualification is granted.

Some courses have all the necessary learning outcomes in place (theoretical and practical) so that when you have completed the training, you are able to perform effectively in the workplace.

Others, once completed, require additional acknowledgments of competence or proficiency to be shown to be able to perform that qualification in a workplace environment. Qualification does not necessarily imply ongoing competence; this may need to be demonstrated and can come in the form of a certification process.

A certification is issued by an organisation or authority that



is independent of the training organisation and has the power to give official or legal approval that a person who has reached or maintained a specific standard.

A certification authority has completed a formal process and verified (and confirmed in writing by issuing a certificate) the attributes, characteristics, quality, qualification, or status of individuals in accordance with established requirements or standards.

The implication is that in some cases, a qualification gives you the right or prerequisites to apply for certification to a certification authority. Examples of certification in industry are the Certified Practicing Engineer (CPEng) and Certified Welding Inspector (CWI).

In the fabrication industry, a welder can be issued with a Certificate III in Fabrication (which is a qualification level under the Australian Qualifications Framework) which shows they can weld.

In some organisations, this is all that is needed for someone to be able to demonstrate they have the necessary skills, due to both theoretical and practical instruction they have received (and has been acknowledged), to be able to weld and this is acceptable to some workplaces.

Although welding is the joining

of materials by fusion (simply put), it is still a highly skilled profession and certain skills and knowledge need to be demonstrated when fabricating different structures, such as pressure equipment and vessels, and aircraft welding.

We have a certification scheme in accordance with Australian Standards which grants certification to experienced and competent welders engaged in the operation of various welding processes used in the manufacture of pressure equipment. This indicates a sound knowledge of the theory of safe welding and a demonstrated ability to make welds on plate or pipe by using the correct welding processes.

This is needed to be able to demonstrate that a recommended degree of quality has been achieved in the welding to meet the needs of safety and performance.

A lot of companies have the issue with finding competent welders for specific tasks so require welder testing to be conducted. In some workplaces, there are requirements for welders to demonstrate their ability to weld with qualified or prequalified welding procedures. This is done by simulating a specific joint on a test piece, which is then tested to ensure that the applicable standard has been met. This is done regardless of trade or welding qualifications held and is called Welder Qualification.

A recent example as to why this is required would be an Australian company looking to hire welders for a project, who after a recruitment process identified 20 individuals who met the prerequisite qualifications and experience.

The company put the 20 welders through welder qualification testing at a cost to the company of \$1,000 per welder, but only two passed. This indicates that welding qualifications and experience are not necessarily an indication of ongoing proficiency.

Some certification authorities issue certifications that have a period of validity or 'life'. Although not prevalent in fabrication, it is required in industry to show the following:

 The continued ability to be able to demonstrate the level of competence

 this is to show that the issue level of certification is being maintained, such as a person who holds an Aircraft Welding Authority must renew this authority



every two years by submission of a weld test.

- The certification holder is able to progress to the next level of competence due to the experience gained - during the time the certification is held that holder has demonstrated competencies or skills, met minimum time requirements or has achieved additional gualifications to progress e.g. a Certified Welding Inspector can apply for Senior Certified Weldina Inspector due to the additional experience gained.
- The currency of the level certified – evidence is provided that the level of certification is being regularly performed (more on this later) e.g. NDT

Technician providing documentary evidence at a five year renewal of continued satisfactory work activity without significant interruption.

The capacity of someone to be able to perform the level of competence the ability to be able to prove that certification should not be revoked or made invalid due to other factors like medical. evesight requirements, holding other required certification required etc., e.g. a qualified rail welder who cannot renew their Rail Industry Worker Card because of a medical condition.

The validity period can be any defined period as specified by the issuing authority, standards

or legislation. This could mean that the person to be recertified would require the submitting of evidence or being re-examined to the standard required of the certification authority.

All these requirements for re-certification are important to the employer but one that I would like to highlight is the importance of currency. Some industries operate in an environment where continual change means that equipment and processes are quickly out of date.

It is only through keeping up to date with the requirements and regular engagement within industry, that certification holders will understand which skills they need and the changes that are occurring. Ideally certification holders are regularly exposed to





workplaces and that they have the ability to participate in certification tasks to maintain and update skills.

What does this imply? That someone who holds a qualification actually maintains the skills and knowledge of that qualification by performing it regularly.

To give an example, if a welder gained a welding AS 2214 Supervisor qualification in 1985 and performed as a supervisor to 2005 before becoming a Quality Coordinator, what does this mean? It means that the person is a supervisor with 20 years' experience but may not have performed the function for 12 years. There is no life on a welding supervisor's qualification, so the person is still a welding supervisor, despite no recent experience. Would you employ that person for a senior welding supervisor position?

Another example is a welder who was issued an AS 1796 Cert 8G in 1998 but has only fabricated trailer bodies since being certified, do you hire that person on a pipeline fabrication project? This person holds the correct certification and is currently in a position that requires regular welding, does that mean you could fill your vacancy?

In summary, a qualification is an acknowledgment of a level of knowledge gained through education or training at a point in time whereas a certification is an acknowledgment of a level of status identifying ongoing competency in a job or task.

The question remains, does the welding industry need to review qualification and certification or is the current solution acceptable?

I would enjoy your thoughts on this question so please feel free to send feedback to training@wtia.com.au.

FURTHER INFORMATION

For further details about WTIA training courses, please visit: the <u>WTIA website</u>.

Alternatively, contact Paul James, WTIA Training Manager, on 02 8748 0150 or p.james@wtia.com.au

ASIA-PACIFIC'S INTERNATIONAL MINING EXHIBITION (AIMEX)

Asia-Pacific's International Mining Exhibition (AIMEX) is the most significant mining industry event in the region, and it's returning to Sydney Olympic Park from 29 to 31 August 2017.

AIMEX will feature over 300 suppliers from across the world, providing visitors unrivalled opportunity to connect and interact with companies and their products.

New to AIMEX is the introduction of a free-toattend conference, which will feature the theme of 'The Future of Mining' in 2017. The conference will deliver operational improvements for all mining techniques and skillsets.

The conference will showcase the latest developments and advances in technology across the mining value chain that extend the life of the mine and ensure the highest level of safety and reliability.

Specific conference sessions will cover:

- Technology and innovation
- The digital and automation revolution
- The economic and political outlook for the mining industry
- The importance of collaborative networks
- Innovation success stories
- Engineering excellence
- Fleet performance and tyre
 management
- Technical advancements in drilling and blasting, processing and bulk materials handling
- Health, safety and wellness

A dedicated platform launching

new-to-market technology

AIMEX remains the leading event for the mining sector, with its scale offering opportunities for the industry to upskill, network and generate new business leads.

To register for AIMEX and to see the full exhibitor directory and conference schedule please visit <u>www.aimex.com.au</u>

Registrations for AIMEX are completely free of charge.

The WTIA is pleased to be a supporter of AIMEX, and will be exhibiting at the three day conference. Please be sure to visit us at Stand 3934.



REGISTER NOW 29 - 31 AUGUST 2017

ASIA-PACIFIC'S INTERNATIONAL MINING EXHIBITION

► The largest showcase of suppliers both locally and internationally







AIMEX WILL FEATURE: A free to attend operationally focused conference

Asia-Pacific's International Mining Exhibition Sydney Showground, Sydney Australia For more information visit aimex.com.au

WTIA SUCCESSFULLY COMPLETES MODERNISED INTERNATIONAL WELDING ENGINEERS COURSE

WTIA has recently finished the revamped International Welding Engineer (IWE) and International Welding Technologist (IWT) courses at the University of Wollongong (UOW).

The course was recently redeveloped and facilitated by leading international welding expert, Madeleine du Toit, a Professor in the Welding Engineering Research Group at the University of Wollongong.

Madeleine holds BEng, MEng and PhD degrees in Metallurgical Engineering from the University of Pretoria in South Africa and a Masters in Welding Engineering from the University of Witwatersrand. She is a registered Professional Engineer in South Africa and an International Welding Engineer (IWE).

The major change to the course structure was that the previous structure of three parts to the course is now divided into four modules, enabling the participants an easier flow of instruction, examination and learning. The WTIA has received very positive feedback from the participants about the course content and the facilitation by the UOW.





The participants especially enjoyed the practical phase of the course where through 'hands-on' experience, they got an understanding of WHS requirements for different welding and cutting processes and the degrees of difficulty associated with welding in different positions. The practical gave them insight into the difficulty in creation of good quality welds using different techniques so as to avoid the different associated defects.

This phase was conducted at TAFE Illawarra in Wollongong and facilitated by three TAFE Illawarra Trainers; Guy Brooks, Joe Sandor and Nathan Bayliss who all were commended on their





knowledge and practical skills by the participants.

WTIA has scheduled another course to commence in September this year at the UOW using the same successful format. Changes to be seen for the next course will be the introduction of online examinations rather than the face to face ones required presently. This is a leap forward in the way that WTIA conducts qualification and certification.

If you require further information, contact Paul James,WTIA Training Manager, on 02 8748 0150 or p.james@wtia.com.au.

REPLACEMENT OF THE REGISTER OF QUALIFIED AND CERTIFIED WELDING PERSONNEL

The current public database of WTIA and IIW Register of Qualified and Certified Welding Personnel will be phased out and replaced by the WeldQ System and the AWCR.

The current register will be phased out very soon. If you want your existing qualification and certification details to be visible on the new public directory, you must register on WeldQ as soon as possible. More than 300 people have already registered on WeldQ. Best of all, registration is completely free of charge.

How Do I Register on WeldQ?

Go to <u>www.awcr.org.au/</u> welders/how-to-register/

It is strongly recommended that you use the Google Chrome browser as other browsers may not work properly. If you use Firefox, you may experience some problems. We do NOT recommend Windows Explorer.

Before Registering

Read through the instructions before registering on WeldQ. This will make the registration process much easier.

Instructions on how to set up a WeldQ account and a WeldQ profile can be found on the <u>AWCR website</u>.



All details entered will be verified by the WTIA.

Further Information

If, after referring to the instructions in the resources, you require assistance, phone 02 8748 0100, or use the contact form on the AWCR website.

WANT TO GET QUALIFIED, BUT NO TIME FOR TRAINING?

Try the Alternative Route The alternative route is aimed at individuals who may already have experience in a job at a particular level, without holding the appropriate qualification.

These individuals will have already gained full or part knowledge of the syllabus and be able to demonstrate their capability to proceed to examination directly without compulsory attendance at an approved training course. Individuals are assessed based on their experience, education, training, and practical work experience in welding at the relevant qualification level.

The assessment process involves a paper assessment, completion of a case study project, presentation to a panel of examiners and oral interview. Success in the assessment enables you to sit the relevant exams. A pass in the exams leads to the award of the relevant qualification. The alternative route is available for:

- International Welding Practitioner (IWP)
- International Welding Specialist (IWS)
- International Welding Technologist (IWT)
- International Welding
 Engineer (IWE)
- Inspector Basic (IWI-B)
- Inspector Standard (IWI-S)



The Centre for Future Work and The Australia Institute are proud to host the National Manufacturing Summit, a one-day gathering at Parliament House.

PRESENTED BY



KEYNOTE SPEAKER >



Robert Kuttner Heller School, Brandeis University; Co-Editor of The American Prospect

Manufacturing Jobs and the Well-Being of Our Communities: A View From the U.S.

The loss of manufacturing jobs has caused widespread, lasting hardship in many industrial societies. And now, in the wake of Brexit and Trump, the political consequences of that ongoing hardship can no longer be ignored. Why is manufacturing work so important to the well-being of communities, and what can be done to start repairing the damage?

MANUFACTURING MATTERS

WEDNESDAY 21 JUNE 2017 MAIN COMMITTEE ROOM AUSTRALIAN PARLIAMENT HOUSE CANBERRA

After years of downsizing and pessimism, there are encouraging signs that manufacturing industry in Australia may be turning a corner. Employment and new orders have grown. Business optimism is improving. And Australians still firmly believe that a healthy manufacturing sector is crucial to national prosperity.



FEATURING POLITICAL LEADERS FROM ACROSS THE SPECTRUM >

- Minister Arthur Sinodinos Minister for Industry
- Senator Kim Carr Shadow Minister For Industry
- Senator Nick Xenophon Leader of the Nick Xenophon Team
- Senator Lee Rhiannon Industry Spokesperson, Australian Greens.







Laura Tingle Political Editor, Australian Financial Review

Dr Richard Denniss Chief Economist, The Australia Institute

manufacturingmatters.org.au

Roy Green Dean UTS Business School



David Turvey Department of & Science



AND MORE TO **BE ANNOUNCED >**

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UPCOMING EVENTS

hether you need to brush up on skills acquired years ago, or want to try your hand at something new, there's sure to be an event for you. Keep in mind that attending WTIA events counts towards CPD requirements for certification applications and renewals. For details on these events or exams, contact <u>events@wtia.com.au</u> or +61 2 8748 0100.

National Manufacturing Summit

Canberra, 21 June After years of downsizing and pessimism, there are encouraging signs that the manufacturing industry in Australia may be turning a corner. A diverse group of industry stakeholders will assemble to build on this opportunity by elevating the prominence of manufacturing in policy debates and public awareness. For details, visit: manufacturingmatters.org.au

NanoSPD

Sydney, 2 to 7 July The Seventh International Conference on Nanomaterials by Severe Plastic Deformation will highlight the potential of severe plastic deformation as a tool for producing bulk nanostructured and ultrafine grained materials. For details, visit: www.nanospd7.com

Australian Steel Convention

Gold Coast, 17 to 19 September With State Government plans to invest up to \$115 billion on infrastructure works, the theme for this year's convention is 'Steeling Australia's Infrastructure'. For the Australian steel supply chain's participation in this unprecedented commitment, we need to demonstrate why steel should be the material of choice, and how local inclusion can provide economical and compliant solutions. For details, visit: <u>www.steel.org.au</u>

Corrosion & Prevention 2017

Sydney, 12 to 15 November This year's Corrosion & Prevention conference will comprise a program of keynote presentations and technical papers under a range of industry 'streams'. Over 500 delegates from diverse industries are expected to attend. For details, visit: www.corrosion.com.au

WTIA & IIW EXAM DATES

IWS and WTIA Welding Supervisor (including AS 1796 Cert 10 and AS 2214)

- 14 & 15 June 2017
- 9 & 10 November 2017

IWI-B and IWI-S

- 31 August & 1 September 2017 (depending on demand)
- 2 & 3 November 2017

Please note that these dates are subject to change. For further information, please contact <u>qnc@wtia.com.au</u>.





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